



# SEAFDEC NEWSLETTER

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## SEAFDEC holds its 42<sup>nd</sup> Council Meeting in Luang Prabang

At the kind invitation of the Government of Lao PDR, the 42<sup>nd</sup> Meeting of SEAFDEC Council was held in Luang Prabang, Lao PDR from 5 to 9 April 2010. In attendance were the Council Directors and their delegations from the 11 SEAFDEC Member Countries. With the mandate of SEAFDEC to promote



The Council Directors and their delegations from SEAFDEC Member Countries attending in the 42<sup>nd</sup> Council Meeting in Luang Prabang

sustainable development of fisheries in Southeast Asia, the Meeting reviewed the progress and achievement as well as the proposed program of activities of SEAFDEC to ensure that they are responding to the current fisheries situation and emerging challenges. The

Council also discussed the various issues that are important for the development of sustainable fisheries in the region, and called for greater attention and cooperation, particularly in addressing food security and poverty alleviation.

During the Meeting, the several international fisheries-related issues and in order to address, the Council specifically requested SEAFDEC to assist Member Countries in the implementation of the EC Regulation on Catch Certification Scheme and the FAO Legally-Binding Instruments on Port State Measures for Combating IUU Fishing, as well as in mitigating the impacts from Climate Change to fisheries and aquaculture in the region.

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## SEAFDEC at the Eighteenth Meeting of the ASEAN Sectoral Working Group on Fisheries in Bandar Seri Begawan, Brunei Darussalam

In the 18<sup>th</sup> ASEAN Sectoral Working Group on Fisheries, SEAFDEC Senior officials led by Dr. Chumnarn Pongsri, Secretary-General and Mr. Kenji

Matsumoto, Deputy Secretary-General as well as other senior officials, participated in the aforesaid meeting which was held in Bandar Seri Begawan, Brunei Darussalam from 23 to 25 June 2010. Together with the delegations from Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Philippines, Singapore, Thailand and Vietnam, representatives from the ASEAN-US Technical Assistance and Training Facility (AU-TATF), Mekong River Commission (MRC), Southeast Asian Fisheries Development

Center (SEAFDEC), and the ASEAN Secretariat also attended the meeting.

The important issues relevant to SEAFDEC in particular, were presented under several items of the agenda and supported by the 18<sup>th</sup> ASWGFi. These include concerns related to the ASEAN-SEAFDEC Strategic Partnership (ASSP) Programme, ASEAN Cooperation with Dialogue Partners, and the "FISH FOR THE PEOPLE 2020" Conference.

During the discussion, the Meeting endorsed the summary report and key recommendations of the 12<sup>th</sup> Meeting of the FCG/ASSP in November 2009

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SEAFDEC Secretary-General and Senior Officials participating in the 18<sup>th</sup> ASWGFi meeting

## EDITORIAL

During this quarter, SEAFDEC has conducted the 42<sup>nd</sup> Meeting of the SEAFDEC Council in Luang Prabang, Lao PDR, where the policy directives were given on the SEAFDEC programs of activities as well as other important operational issues to ensure that SEAFDEC would be operated in responding to the priority and requirements of the Member Countries, as well as the other challenges emerged at the international/global level. Other important activities undertaken during this period also include the preparation for the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security towards 2020, scheduled on 13-17 June 2011, of which several events were organized by SEAFDEC and the ASEAN-SEAFDEC Member Countries to obtain relevant technical inputs to the Conference.

SEAFDEC also reported to the 18<sup>th</sup> Meeting of the ASEAN Sectoral Working Group on Fisheries on the progress of the Conference, which was earlier supported by ASEAN during the SOM-31<sup>st</sup> AMAF, SOM-9<sup>th</sup> AMAF Plus Three, and the 31<sup>st</sup> AMAF. The involvement of the ASEAN Member Countries, particularly in gathering/providing required technical inputs from responsible agency and relevant stakeholders and the participation of the high level officers to the Conference, was confirmed. To update public on the progress in the preparation of the ASEAN-SEAFDEC Conference and enhance the participation of stakeholders to the Conference, SEAFDEC is also planning to organize the Second Press Conference in the coming August 2011.

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on our Newsletter to  
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## SEAFDEC collaborates with BOBLME for the “Fisheries Statistical Working Group” Workshop

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were made by Bangladesh, India, Indonesia, Malaysia, Myanmar, Sri Lanka, and Thailand. This was followed by sharing of the IOTC experience in regionally harmonized fisheries statistics, and discussion on existing data holdings with relevance to BOBLME stock assessment initiatives. The Workshop also discussed and tentatively agreed on the data collection framework of

Hilsa, Indian mackerel and sharks, and preliminarily identified the currently available data of these species in each country, as well as the relevant national institutions that could be included in the establishment of the Working Group. In addition, the Workshop also agreed on



*BOBLME Workshop in collaboration  
with FAO and SEAFDEC*

the 1-year work plan to strengthen data and information collection of Hilsa, Indian mackerel and sharks under the BOBLME project. It should be noted that four of seven BOBLME Countries are Member Countries of SEAFDEC. ❖

## Seafly at sea workshop

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Coordination Center (Thai-MECC or SORNCHON), and from the Tokyo University of Marine Science and Technology (TUMSAT) of Japan. The SEAFDEC Secretary-General, Deputy Secretary-General and senior officials from the SEAFDEC Secretariat, Marine Fishery Resources Development and Management Department (MFRDMD), and TD also attended the Workshop.

The Second Technical Workshop aimed to establish a collaborative mechanism among relevant agencies, organizations and authorities for the improvement of safety at sea for small fishing boats and the living conditions of fishers on fishing boats as well as to initiate the preparation of regional guidelines for safety at sea of small fishing boats for Southeast Asia. Moreover, the Workshop was also envisaged to establish a network for the exchange and sharing of information on the improvement of

the conditions of fishing boats and lives of fishers at sea in the Southeast Asian region. The Workshop reviewed and enhanced the recommendations from the December 2003 Workshop, and came up with the over-all recommendations on Safety at Sea for Small Fishing Boats in the Southeast Asian Region. Considering the recommendations as over-all framework, the Workshop also suggested that appropriate regional programs on Safety at Sea could be developed by the respective Southeast Asian countries. In this connection, the Workshop also suggested that issues and concerns on Safety at Sea raised during the Workshop could be included as inputs for discussion during the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020: “Fish for the People 2020” scheduled in June 2011 in Bangkok, Thailand. ❖

## SEAFDEC at the Eighteenth Meeting of the ASEAN Sectoral Working Group on Fisheries in Bandar Seri Begawan, Brunei Darussalam

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in Kota Kinabalu, Sabah, Malaysia, on the ASEAN-SEAFDEC collaborative projects. In addition, the Meeting endorsed the Policy Brief and the Regional Guidelines on the Promotion of FOVOP System to Improve the Livelihood of the Fisheries Communities in the ASEAN Region, and agreed to submit these documents to the SOM-AMAF. The Meeting also recommended that the project outcome should be shared with the ASEAN Working Group on Agricultural Cooperatives. This is considering the fact that the project outcome could contribute to the strengthening of agricultural cooperatives and farmers' organizations as guided by the ASEAN Blueprint.

Furthermore, the Meeting also noted the progress in the implementation of the program on Promotion of Sustainable Aquaculture and Resource Enhancement in Southeast Asia as proposed by Japan and endorsed at the 9<sup>th</sup> AMAF Plus

Three Meeting held in November 2009 in Brunei Darussalam. Implemented by SEAFDEC for five years (2010-2014), the program receives funding from the Japanese Trust Fund (JTFV). In this connection, the Meeting further requested SEAFDEC to update and disseminate the information on the status and plan of JTF programmes in order to report to and seek guidance from the SOM-AMAF Plus Three in the future.

Additionally, the Meeting noted the status and plans for the conduct of the ASEAN-SEAFDEC "FISH FOR THE PEOPLE 2020" Conference to be organized in June 2011, including the conduct of the Ministerial Meeting and participation of the ASEAN Ministers and senior officials responsible for fisheries at the Conference.

The Meeting confirmed that as regards the "FISH FOR THE PEOPLE 2020" Conference, the proposal of the

ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020 which was supported by the SOM-31<sup>st</sup> AMAF, SOM-9<sup>th</sup> AMAF Plus Three, and the 31<sup>th</sup> AMAF emphasized on the importance of the ASEAN Member States' involvement and commitment to the Conference. Their participation is particularly crucial in the development of the next decade regional strategies and plan of action for sustainable development of fisheries and in ensuring the contribution of fisheries in the ASEAN Community building process. It was reiterated during the Meeting that the Conference is also expected to support the ASEAN Member States in the implementation of the ASEAN Integrated Food Security (AIFS) Framework and the Strategic Plan of Action on Food Security in the ASEAN Region (SPA-FS) as adopted by the ASEAN Leaders at the 14<sup>th</sup> Summit in 2009. ❖

## SEAFDEC holds its 42<sup>nd</sup> Council Meeting in Luang Prabang

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The Meeting also addressed the important role of fisheries in providing food for the people of the Southeast Asian region, of which the related issues were planned to be discussed through the agenda of the forthcoming "Fish for the People 2020 Conference" which will be convened in June 2011. The Conference is expected to come up with the Next Decade Resolution

and Plan of Action considered as the policy framework and priority actions that would accommodate the emerging challenges to be tackled in the next decade in the ASEAN Region. In addition, the Council also supported the initiative on "One Village, One Fisheries Product (FOVOP)" to improve livelihood of fisheries communities in the ASEAN



42<sup>nd</sup> Meeting of the SEAFDEC Council held on 5-9 April 2010 in Luang Prabang, Lao PDR

Region of which the Regional Guidelines was developed and would be used as basis for future implementation of the FOVOP initiative in the ASEAN Region.

During the past years, SEAFDEC has cooperated with several regional and international organizations in the sustainable development of fisheries;

the Council therefore took the opportunity of the 42<sup>nd</sup> SEAFDEC Council to welcome the cooperation and partnership initiated between SEAFDEC and these organizations. Among others, the Council urged SEAFDEC to enhance closer cooperation with the Association of Southeast Asian Nations (ASEAN) through the implementation of ASEAN-SEAFDEC Strategic Partnership (ASSP), the Food and Agriculture Organization of the United Nations (FAO), the Swedish International Development Cooperation Agency (Sida), the Mekong River Commission (MRC), and with the Colombo Plan, of which the Memorandum of Understanding between SEAFDEC and the Colombo Plan aimed at promoting human resource development and capacity building. ❖

# DEPARTMENTAL ACTIVITIES

## AQD Chief reappointed to third term



*AQD Chief,  
Dr. Joebert Toledo*

Council Meeting in early April. The trust given to Dr. Toledo is in recognition of the progress in aquaculture R&D that AQD has made upon his leadership. Among the institutional landmarks in his term are the significant increase in the number of AQD's foreign and local partners, and the increase in the

Dr. Joebert Toledo was reappointed as AQD Chief for the third consecutive time. This was announced in Lao PDR during the Forty Second SEAFDEC number of researchers/scientists that have joined AQD and are now working on sustaining aquaculture in view of climate change and other environmental issues. Dr. Toledo has also successfully lobbied for the 50% increase in budget allocation from AQD's host country, the Philippines. Aquaculture continues to be an important government strategy for food security and poverty alleviation especially in rural areas, and AQD plays a significant role in realizing this strategy by developing and refining science-based aquaculture technologies.

At AQD, there is now a new small-scale abalone and multi-species marine fish hatchery that demonstrates to the private sector such a profitable venture. A new sandfish or sea cucumber hatchery

has also been built. Dr. Toledo also spearheaded the strategic change in institutional direction, and through a technical experts consultation in Southeast Asia, it was determined that the priority for aquaculture R&D should be small-scale, integrated farms because farmers play a pivotal role in the food supply chain and have better control over the sustainable use of farm resources. AQD is also primed to go into what scientists/ researchers call "multi-trophic" aquaculture where fish, abalone, sea cucumber, and seaweeds, among others, can be grown simultaneously in a culture system to maximize resources used, minimize pollution in aquatic environments, and perhaps deal with climate change. ❖

## Post-training evaluation and training needs assessment in Sri Lanka

The Workshop on Post-training Evaluation and Training Needs Assessment was conducted as collaborative activity between the Ministry of Fisheries and Aquatic Resources (MFAR) of Sri Lanka and SEAFDEC/TD, on 17 -19 March 2010 at MFAR in Sri Lanka. The Workshop was attended by corresponding heads, representatives and former SEAFDEC training participants from the following institutes: Department of Fisheries and Aquatic Resource (DFAR), Ministry of Fisheries and Aquatic Resources (MFAR), Department of Coast Conservation (CCD), National Aquatic Resource Research & Development Agency (NARA), National Aquaculture Development Authority (NAQDA), National Institute of Fisheries and



*TD staff discussed and shared experiences on training activities with staff of the Ministry of Fisheries and Aquatic Resources (MFAR), Sri Lanka*

Nautical Engineering (NIFNE), Aquatic Resources Development and Quality Improvement Project (ARDQIP) and Post Tsunami Coastal Rehabilitation & Resource Management Program (IFAD). Two representatives from TD, namely: Mr. Bundit Chokesanguan and Ms. Panitnard Taladon presented the

relevant information on the SEAFDEC training programs and the participation of Sri Lanka in many SEAFDEC training programs.

Through this collaborative training activity, nearly one hundred officers from Sri Lanka with sponsorship and support from MFAR had been trained at TD in Samut Prakan, Thailand in the aspects of fishery management, extension methodology, fishing gears and practices, fishing technology, etc. During the discussion, representatives of the former SEAFDEC training participants expressed their appreciation to TD and mentioned that the knowledge which they gained through the training courses are very useful, applicable to their work and meet the good level of quality training. ❖

## TD joined the coral triangle fishers forum

The Coral Triangle Fishers Forum (CTFF) was hosted and organized by World Wildlife Foundation (WWF) and the Ministry of Marine Affairs and Fisheries of Indonesia (MMAF-Indonesia) in collaborative partnership with the Southeast Asian Fisheries Development Center (SEAFDEC) from 15 to 17 June 2010 at Sanur Paradise Plaza Hotel, Bali, Indonesia. The Forum aimed to: (i) facilitate sharing of information and experiences on by-catch reduction and best practices in the Coral Triangle (CT) by identifying obstacles, key issues and priorities; (ii) promote and learn from examples of industry-fisherfolk partnerships on by-catch reduction, best practices and other examples of “continual improvement”; (iii) expand collaboration with the CT region focusing on

fisheries improvement among supply chain actors; (iv) develop a “road map” by identifying relevant enabling policies and programs and how fisherfolk and industry players can help and implement these; and (v) formally establish and endorse the “Coral Triangle Fishers Forum” as a platform of regional dialogue

for sustainable fisheries development that helps to deliver the final goals of the Coral Triangle Initiative (CTI) Regional Plan of Action.

The resource persons from TD, led by Mr. Bundit Chokesaguan provided technical assistance during the Forum

based on their experiences on the promotion of by-catch management, responsible fishing gears and practices, and responsible fisheries management. The resource persons from TD also presented an overview of by-catch interactions in fisheries under the SEAFDEC activities on mitigating by-catch interactions in fisheries in Southeast Asia. SEAFDEC documents and posters on responsible fishing and best practices were also presented during the Forum. ☒



*TD staff presented and shared experiences on by-catch management at the Coral Triangle Fishers Forum*

## AQD conducts post-harvest training for women

AQD organized two post-harvest courses for the women of Iloilo and Guimaras provinces. The Training on post-harvest and marketing of milkfish



*The Training on post-harvest and marketing of milkfish on 16 April 2010*

had 28 participants and was conducted on 16 April and on 29 April. The training workshop was aimed at building the women’s capability in the proper handling after harvest, value-adding and marketing of milkfish. The participants were taught deboning techniques and marinade preparation. Two researchers from the University of the Philippines Visayas were the resource persons. For the smoked processing training for Guimaras women, AQD and Taytay sa Kauswagon Inc. (TSKI) joined forces. This was held on 15-16 April with 20 fisherfolk from four villages attending. The course included deboning, smoking, and costing of milkfish which



*The Training on post-harvest and marketing of milkfish on 29 April 2010*

were taught by three small-business entrepreneurs. ☒

## On-site Training and awareness raising on the Integration of Fisheries and Habitat Management and the Management of Fishing Capacity in Andaman sea countries

SEAFDEC has been exerting efforts to address the issues of fisheries resources depletion and degradation and destruction of marine natural habitats due to overfishing (including IUU fishing) and natural hazards that affect the fishing communities and fisher-folk livelihoods in many coastal areas of the Southeast Asia countries. SEAFDEC, with funding support by Swedish International Development Cooperation Agency (Sida), recognized that the problems also occur in the Andaman Sea Sub-region, this brings SEAFDEC and Sida together in implementing a range of activities for the promotion of improved fisheries management and regional/sub-regional cooperation, under the project on “Activities Related to Climate Change and Adaptation in Southeast Asia with Special Focus on the Andaman Sea, 2009-2011”. The project aims to address the need to integrate fisheries management and habitat management, including restoration and maintenance

of important habitats together with conservation measures for valuable fish stocks, and to raise awareness on the need for better management including knowledge and relevant practices with regard to the management and responses to natural hazards.

From the project will conduct several on-site training series in the Andaman Sea countries as recommended by the member countries during the 1<sup>st</sup> Meeting of the Andaman Sea sub-region in Phuket, Thailand, 20-22 October 2009. The meeting recommended that the project should also facilitate the on-site training events at the provincial level to gain the feedback from lower level to national level even to the higher level. Promoting sub-regional management arrangements could better address area-specific issues such as habitats, fish species/fish migration, IUU fisheries and the potential conflicts and opportunities in trans-boundary areas. The theme of



these on-site training series is: “Sharing information and awareness raising on the Integration of Fisheries and Habitat Management and the Management of Fishing Capacity in Andaman sea countries”. Tentatively, the on-site training will be held in Andaman Sea countries (and surrounding region including Malacca Straits), such as: Indonesia (Medan-North Sumatra, 19-22 July 2010), Malaysia (Kuala Kedah, September 2010), Thailand (January 2011), and Myanmar (2011). ❖

## AQD and Zoological Society of London collaborate on CRM course

Sustainable CRM or coastal resource management is the topic of a training organized by AQD and the Zoological Society of London (ZSL) on two

separate sessions from 26 to 28 May and 16 to 18 June at AQD’s Iloilo station. The training was held in collaboration with the local government units (LGUs) and

people’s organizations (POs) of Ivisan and Pan-ay, Capiz; Ibajay, Aklan; and Ajuy, Iloilo. Attended by a total of 66 participants, the course was aimed at preparing the participants in making their own CRM plans. Lectures included the concept of sustainable CRM, coastal & marine ecosystems, laws & policies related to mangroves and CRM, livelihood & enterprise development, IEC or information-education

communication, shoreline management, coastal tourism, fisheries habitat management, coastal zoning, community organizing; legal arrangement and institutional development and health and sanitation in coastal areas.

“Sustainable CRM is an area close to AQD’s heart, since this is what we have been hoping to achieve for the past 37 years,” said AQD Chief during the closing ceremony. He also mentioned that AQD’s first CRM project was in Malalison island in Antique, west central Philippines. “We would like to see the lessons in Malalison applied by other communities, and AQD is willing to provide technical support should LGUs and POs wish to engage in aquaculture as part of their CRM plans.” ❖



*The lectures of training included the concept of sustainable coastal resource management*

## AQD exhibits in two events



Aquaculture Department participated in two events and put-up booths, the first of which was during Brunei-Indonesia - Malaysia East Asia Growth Area's (BIMP-EAGA) High-value aquaculture business

conference held on 5-7 April in General Santos City, southern Mindanao. AQD researchers Mr. Vincent Encena II and Ms. Ma. Rovilla Luhan were invited to deliver talks on abalone and seaweed farming, respectively, at the said conference.

The second was in Bohol during the Aquaculture technology 2010 convention organized by BFAR Region 7, Municipality of Calape and a private

partner which was held from 6 to 8 April. AQD's I g a n g Marine Station



Head, Mr. Albert Gaitan was invited to speak on cage culture of high-value marine species. ❖

## Private sector thanks AQD

Dr. Joebert Toledo, AQD Chief signed the closure agreement with AQD's private sector clients Ms. Betty Lua and Mr. Fortunato Sanchez Jr. on 27 April in their milkfish farm in Cebu City, Philippines. The technical assistance extended by AQD is under its ABOT Aquanegosyo program or Agree-build-operate-transfer aquabusiness which is AQD's technology transfer mechanism for fish farmers and investors that is open to the region.



*Dr. Joebert Toledo, AQD Chief signing the closure agreement with AQD's private sector*

The Lua farm has a total area of 80 ha, but only 34 ha were developed for milkfish culture by AQD. From 2 tons of milkfish harvest in 2007, AQD was able to increase production to 36 tons in 2009. Ms. Lua said she was "very thankful that at least SEAFDEC is open to sharing with us their technology" and "giving us a chance to develop and fully utilize the area." ❖

## Meeting on highly migratory species information collection

*(Continued from page 16)*

developed a unified and harmonized Annual Plan of activity for 2009 for each participating country to adopt. The Meeting also suggested that tuna landing sites and the enumerators in the participating countries should be identified and the information should be provided to the Project before starting tuna data collection in early 2009. During the 2<sup>nd</sup> Working Party Meeting, the 10-year tuna production from 1997-2007 based on the fisheries statistics provided by the relevant countries except Vietnam, including the existing fisheries statistical systems adopted, were reported. The outcome of the data

collection at the selected landing sites in each IPTV countries based on 6-8 months implementation, were also presented. In addition, the Meeting concluded that the one-year cycle of information collection on tuna landing production at the selected landing sites should be completed with co-funding support from the Project and respective countries. The project plan and activities from late 2009 until early of 2010 was finalized, while the future activities for the participating countries in developing fishing logbook or catch documentation system to support the long-term and proper collection of tuna data/information were developed. ❖

## AQD conducts international courses

*(Continued from page 11)*

For the special training on shrimp farming that was conducted from 12 to 28 April, six participants attended, four of whom are staff of the National Prawn Company of the Kingdom of Saudi Arabia. The other trainees came from the Philippines and Sudan. The training course encompassed lectures and practicals on the shrimp industry; disease detection, prevention, & control; feed preparation; business planning & management; harvest & postharvest; and site selection & pond preparation. The participants also went on field trips. ❖

## Sandfish hatchery is developed by SEAFDEC

by Dr. Joebert Toledo, Chief of Aquaculture Department,  
Iloilo, Philippines

At the price of US\$180 to 250 per kilogram of dried sea cucumber in the United States, sea cucumber are good bets for fish farmers in the region wanting to find the new “gold” in aquaculture.

This has driven SEAFDEC and its Aquaculture Department (AQD) in the Philippines to develop the hatchery, nursery and grow-out technologies of the sea cucumber *Holothuria scabra* so that overexploitation of the wild fisheries on which the sea cucumber trade depends will cease or be minimized. Aquaculture can take the pressure off wild stock, enabling it to recover and allowing sustainable management plans to be put in place by local government units and people’s organizations in sea cucumber-rich areas.

### New sandfish hatchery built and inaugurated

Just recently, SEAFDEC built and inaugurated on 28 April 2010 a new sea cucumber hatchery in AQD’s main station in Tigbauan, Iloilo. The hatchery can produce as many as 0.2 to 0.5 million sea cucumber juveniles in a 45-day cycle from its ten 3-ton larval rearing tanks and four 8-ton nursery tanks. The hatchery has about 100 sea cucumber broodstock at present.

Attending the new hatchery inauguration are the partner-institutions of SEAFDEC in developing science-based sea



A new sea cucumber hatchery in AQD’s main station in Tigbauan, Iloilo



The partner-institutions of SEAFDEC in developing science-based sea cucumber technologies

cucumber technologies, such as the Research Institute for Aquaculture No. 3 (RIA-3) of Vietnam, the Australian Center for International Agricultural Research (ACIAR) through the Malaysia-based WorldFish Center (WFC), Japan International Research Center for Agricultural Sciences (JIRCAS), and the University of the Philippines Visayas. RIA-3 helped design the SEAFDEC sea cucumber hatchery while ACIAR/WFC and JIRCAS, along with the Government of Japan Trust Fund, are funding studies on sea cucumber. The Philippine Department of Science and Technology (DOST) has likewise been instrumental in technology development.

Dr. Joebert Toledo, AQD Chief, noted that next to Indonesia, the Philippines is the second largest exporter of dried sea cucumber in the world. In 2006, the country’s export of sea cucumber totaled 3,532 metric tons valued at US\$ 4.6 million. Sea cucumber, also known as



*Holothuria scabra*



sandfish or beche-de-mer, live on the seabed, look like slugs, are considered delicacies (*i.e.*, aphrodisiacs), and are common ingredients in Chinese medicine.

Dr. Toledo further noted that profit-making for fisherfolk and aquaculturists is not the sole motivation in putting up the hatchery. Sea cucumber are also potential bioremediators in multi-trophic or polyculture systems as they apparently can subsist on or take in uneaten feeds and feces coming from cultured fish. At AQD, this concept is being tested in black tiger shrimp ponds, and in milkfish and abalone culture. In the latter, sea cucumber are placed under the sea cages to deal with



*The second hatchery harvests*

A second harvest soon followed, this time with 1,500 pieces of juveniles sized 0.5-2.0 inches. This batch was stocked in the wastewater treatment tank (as bioremediator) of one of AQD's hatcheries and/or used by researchers in nursery rearing studies in hapa nets to improve culture technology.

### Training and information dissemination

AQD is also organizing its first training course on sandfish in October 2010. For more details, email: [aqdchief@seafdec.org.ph](mailto:aqdchief@seafdec.org.ph). SEAFDEC has also published a new extension manual, "Seed production of sandfish (*Holothuria scabra*) in Vietnam" which was written by Mr. Nguyen Dinh Quang Duy of RIA-3. The manual is a joint effort of AQD, Government of Japan Trust Fund, RIA-3, and WorldFish Center.



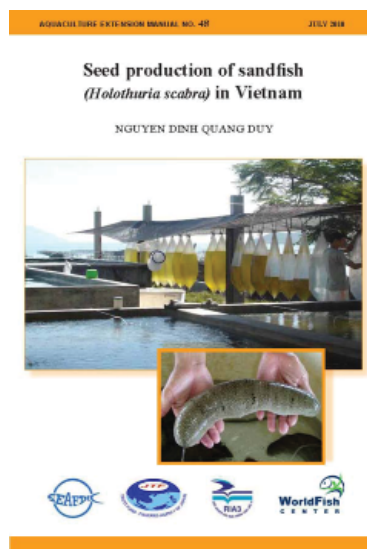
*Researchers in nursery rearing studies in hapa nets to improve culture technology.*

the waste. This is in line with the concept and enforcement of good management practices in aquaculture for environment protection by SEAFDEC and its member-countries.

Dr. Toledo also appealed to interested partners and collaborators in the region to put more funds in aquaculture research and development because aquaculture is still the best strategy to put food on the tables of poor families in rural areas and to manage local aquatic resources sustainably. Coastal communities and local governments for instance can communally-manage sea ranching and stock release programs for such a valuable commodity as sea cucumber.

### First and second hatchery harvests

More than a month after SEAFDEC inaugurated its sandfish hatchery, the first harvest of almost 16,000 juveniles with average size of 4 mm was done. These were transferred to nursery tanks, later to be grown in net cages.



*New publication on "Seed production of sandfish (*Holothuria scabra*) in Vietnam"*

# REGIONAL PROGRAMS

## Safety at sea workshop

The Second Regional Technical Workshop on Safety at Sea for Small Fishing Boats was held at the Training Department (TD) in Samut Prakarn, Thailand from 20 to 23 April 2010, as a sequel to the First Regional Workshop on Safety at Sea for Small Fishing Boats which was organized by SEAFDEC in December 2003. Considering that safety at sea is a serious problem in developing countries, the First Regional Workshop recommended that the progress of the initiatives of the respective Southeast Asian countries in improving safety at sea for small fishing boats should be reviewed taking into account the international and regional initiatives on safety at sea. Thus, the Second Regional Technical Workshop



*The participants in the Second Regional Technical Workshop on Safety at Sea for Small Fishing Boats*

was organized to review such initiatives with special focus on the establishment of a mechanism for recording the accidents at sea of fishing vessels, and on the need to improve the conditions of fishing boats and fishers in the Southeast Asian region.

The Second Regional Technical Workshop was attended by representatives from the SEAFDEC Member Countries, namely: Brunei Darussalam, Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Thailand, and Vietnam as well as from Timor-Leste. The Workshop was also attended by representatives from the Bay of Bengal Program-Intergovernmental Organization (BOBP-IGO), Fisheries Research Agency (FRA) of Japan, Food and Agriculture Organization (FAO) of the United Nations, Kasetsart University (KU) of Thailand, Marine Department of Thailand, National Disaster Warning Center of Thailand, National Fisheries University (NFU) of Japan, the Secretariat of the Pacific Community (SPC), the Thailand Maritime Enforcement

*(To be continued on Page 2)*

## SEAFDEC Participated in the 2<sup>nd</sup> ASEAN Fisheries Consultative Forum (AFCF)


Special Advisor, Dr. Magnus Torell and Policy and Program Coordinator, Dr. Somboon Siriraksophon participated in the 2<sup>nd</sup> ASEAN Fisheries Consultative Forum (AFCF) held on 21-22 June 2010 in Banda Seri Begawan, Brunei Darussalam. The meeting discussed and developed the detailed work plan (3-year plan from 2010 to 2012) for the following key clusters; (i) Combating IUU Fishing, (ii) Promoting Sustainable Fisheries Practices (which included Fishing Capacity and Responsible Fishing Practices, Conservation of Biodiversity and Enhancing Fisheries

Resources, and Fish for Aquaculture Feed), (iii) Fisheries Co-management, (iv) Adaptation and Mitigation of the Impacts of Climate Change, (v) Fisheries Post-harvest and Food Safety,

(vi) Strengthening ASEAN Joint Approaches/Positions on International Trade-related Issues, (vii) Information, Education and Communication to Support Development and Management of Fisheries, and (viii) Capacity Building. SEAFDEC as a dialogue partners contributed inputs and discussed possible contributions to the activities along line with SEAFDEC existing programs for 2010 and onwards under the FCG/ASSP and other programs.



*Special Advisor and Policy and Program Coordinator participated in the 2<sup>nd</sup> ASEAN Fisheries Consultative Forum (AFCF)*

To assist the ASEAN Member Countries in implementing the work plans, the existing SEAFDEC programs would be adjusted along line with the AFCF work plans. 

## On-site HRD training on rural aquaculture and crab farming

A total of 17 participants completed the human resources development (HRD) on-site training course on rural aquaculture conducted on 8-11 March in Hai Phong City, Vietnam. The course was a part of the training series being conducted by SEAFDEC in eight member countries under the project HRD on poverty alleviation and food security by fisheries intervention in the ASEAN region. Two AQD staff- Dr. Nerissa Salayo, socio-economist and Ms. Ruby Bombeo, training coordinator-gave



*On-site training course on rural aquaculture in Hai Phong City, Vietnam*

technical and logistical assistance during the training which was designed by Ms. Chau Thi Tuyet Hanh of Vietnam's Ministry of Agriculture and Rural Development. The course was organized to help fish farmers find livelihood options and train them in small-scale culture of new species capable of living in deteriorating aquatic environment.

Topics covered responsible aquaculture practices & food safety, sustainable rural aquaculture, issues and concerns in peri-urban aquaculture, shrimp culture, and alternative livelihood options. The participants also made two field visits, one to a small farm culturing cá bớp, also known as sleeper fish or goby which is suited to low-quality water, and another to a fish processing facility in Hai Thanh commune where drying of mackerel or tuna was presented as a livelihood option.



*On-site training course on mud crab seed production in Myanmar*

In Chaung Tha, Myanmar where the HRD on-site course on mud crab seed production was conducted on 23-25 March, the attendees were 17 government fisheries workers. AQD sent its scientist Dr. Emilia Quintio to be the resource person. The discussion focused on *Scylla olivacea*, the most common crab species in Myanmar, and included lectures on broodstock/larval rearing and practical demonstrations on morphology and evaluation of broodstock maturity & egg quality. The training was sponsored by Myanmar's Department of Fisheries and the Government of Japan. ☒

## AQD conducts international courses on marine fish, crab, algae, and shrimp

"I made the right choice in coming to AQD," said Ms. Claudia Ehlers Kerber of Brazil upon completing the international training on marine fish hatchery which ran from 26 May to 1 July. "This is because of the knowledge imparted unselfishly by AQD mentors and the skills we gained." Ms. Kerber had 14 co-trainees from Indonesia, Myanmar, Saudi Arabia, South Korea, Sudan, Thailand, Sultanate of Oman, the Federated States of Micronesia, and the Philippines." Lectures and practicals



*International training on marine fish hatchery from 26 May to 1 July*

covered a diverse selection of topics such as sustainable aquaculture, fish biology, natural food production, hatchery design & management, nutrition & feeds, water quality monitoring, health management, economics, postharvest, and marketing. The participants also made field trips.

For the international training course on crab hatchery and grow-out, six participants coming from the Sultanate of Oman, Singapore and the Philippines completed AQD's course held from 14 April to 5 May. AQD resource persons lectured on seed production, nursery & grow-out, and industry status; and gave practical demonstrations on microalgae & Artemia culture as well as larval rearing and feeding. AQD Deputy Chief Dr. Azuma, in his message to participants, said that the course was conducted not only to instruct "how to produce good quality crab seeds and how to grow healthy and high-value crabs" but also because there is a "need



*Participants of the international training course on crab hatchery and grow-out*

to disseminate new technology to ensure the sustainability of crab farming through environment-friendly methods."

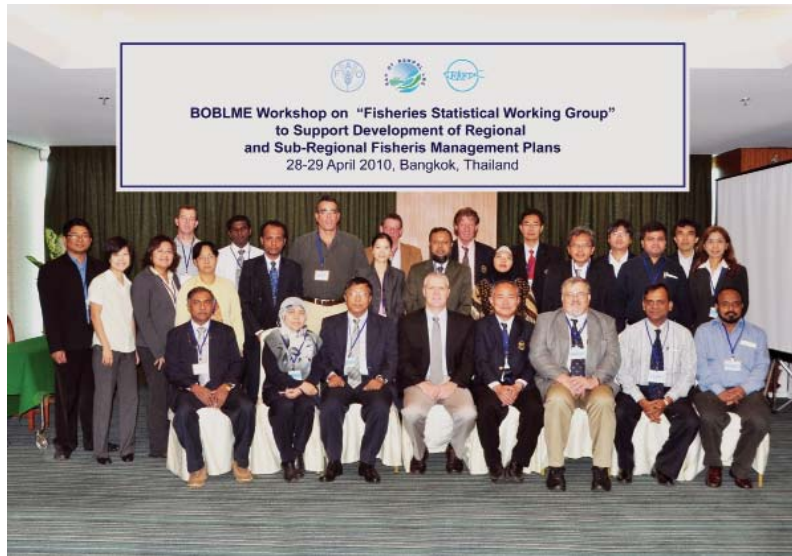
A sole participant from the Sultanate of Oman, Mr. Mohammed Mudhafar Al-Wahaibi, attended the special training course on algal isolation and purification that was conducted by AQD from 14 April to 5 May.

*(To be continued on Page 7)*

## SEAFDEC collaborated with BOBLME for the “Fisheries Statistical Working Group” Workshop

On 28-29 April 2010, the Bay of Bengal Large Marine Ecosystem (BOBLME) Project convened the Workshop on “Fisheries Statistical Working Group” to support development of Regional and Sub-Regional Fisheries Management Plans in collaboration with FAO and SEAFDEC in Bangkok, Thailand. The Workshop was attended by the focal persons for fisheries data management and production of fisheries statistics in the BOBLME countries, as well as the resource persons from FAO, IOTC, and SEAFDEC. This Workshop was considered as the first forum towards collaborative fisheries management approaches and stock assessment of transboundary species in the Bay of Bengal.

The BOBLME Project was implemented since April 2009 under the FAO Technical Cooperation Program framework in response to the need to protect the health of the ecosystem and to sustainably manage the living resources of the Bay of Bengal in order



*Participants in BOBLME “Fisheries Statistical Working Group” Workshop in Bangkok*

to improve the food and livelihood security of the coastal population in the Bay area. The Project comprises five components, namely: i) Strategic Action Programme; ii) Coastal/Marine Natural Resources Management and Sustainable Use; iii) Improved Understanding and Predictability of the BOBLME Environment; iv) Maintenance of Ecosystem Health and Management of Pollution; and v) Project and Knowledge Management.

This Workshop is organized as part of the Component 2 activities, aiming to introduce and promote collaborative fisheries management approaches for selected key transboundary species (e.g. hilsa, Indian mackerel and sharks) through the development of regional and sub-regional management plans, and harmonization of data collection and standardization. It is planned that the Fishery Statistics Working Group would be formed to bring

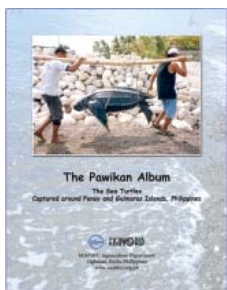
together the available data on the focus species to be used as basis for the implementation of the Project activities in paving the way for harmonized fisheries data collection system in the countries involved in the BOBLME Project.

During the Workshop, presentations on the current concerns on production and update of national fisheries statistics, including data collection (issues, constraints, strengthening needs)

*(To be continued on Page 2)*

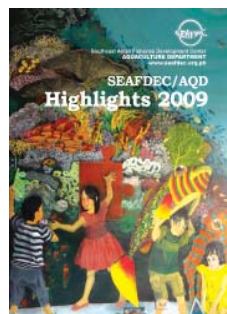
## New manuals, reports, flyer

*(Continued from page 15)*



**The pawikan album: the sea turtles captured around Panay and Guimaras Islands, Philippines**, a 83-page book documenting the

five species of sea turtles and a total of 93 individuals brought into the care of AQD’s FishWorld. With lots of full-color photos, it is written by TU Bagarinao, EF Doyola-Solis, JE Fernando-Teves



**2009 AQD Highlights**, a 44-page report of SEAFDEC’s progress in its aquaculture research, training and information dissemination thrusts



**Prevention and control of parasites in groupers**, a 4-fold flyer that tabulates the protozoans, monogeneans, didymozoid digeneans,

nematodes, crustaceans and leeches that are parasitic to groupers in aquaculture. Prevention and control measures are included. ☒

## TD collaborated with FAO/GEF in organizing by-catch management workshop

A Regional Logframe/Project Planning Workshop for the FAO/Global Environment Facility (GEF) Project Strategies for Trawl Fisheries Bycatch Management (REBYC II-CTI) was held at the Training Department (TD) in Samut Prakarn, Thailand on 4-7 May 2010. The workshop formed part of the project preparatory processes. The workshop aimed to develop a Project Logframe based on national and regional priorities; discuss the project management arrangements, financing and partners; and agree on the next steps to be carried out in the Project development process. The workshop was attended by five participating countries,

namely: Indonesia, Papua New Guinea, Philippines, Thailand, and Vietnam as well as officials from SEAFDEC, and resource persons from FAO and SEAFDEC. In addition, representatives from WWF and Cambodia also attended as observers.


The workshop acknowledged the role of SEAFDEC in the sustainable development of fisheries in the Southeast Asian region, more particularly in supporting by-catch and trawl fisheries management. Since some countries in the Coral Triangle of Southeast Asia (comprising Indonesia, Malaysia, Philippines, Papua New Guinea, Timor

the project through their membership in SEAFDEC. Upon full recognition of the capability and experience of SEAFDEC, the workshop also suggested that the Regional Facilitation Unit of the Project could be hosted by SEAFDEC, subject to further discussions between SEAFDEC and FAO. The unit would be tasked mainly to facilitate the regional cooperation during the implementation of the project. In addition, SEAFDEC would also undertake a relevant activity to be co-funded under the project arrangement and from SEAFDEC donor agencies.



*TD collaborated with FAO/GEF organizing sequel by-catch management workshop*

Leste, Solomon Islands) are also SEAFDEC members, results from the project can be disseminated more widely in the Coral Triangle and Southeast Asian region while other countries in the region not participating in the project could also reap benefits from

Moreover, the workshop also recommended that issues related to by-catch and discards could be discussed at the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020: “Fish for the People 2020” in June 2011. Furthermore, the workshop also suggested that sustainable management of by catch could be included in the Resolution and Plan of Action to be adopted by the Ministers during conference in order to enhance the promotion of by-catch and trawl management in the ASEAN region, which could create an opportunity to draw the attention of the ASEAN leaders on the importance of the REBYC II-CTI Project. 


## On-site training on the use of wind energy in fishing

The On-site Training on the Use of Wind Energy for Sailboat in Fishing was organized from 16 to 18 March 2010 at Phyaron, Ayeyarwady Division in Myanmar. The objectives are: to provide technical support on the utilization of wind energy for poverty alleviation of local fishers without creating impacts on the climate and environment, to transfer the appropriate ship stability improvement and technique, and to introduce the concept of wind energy utilization for fishing to small-scale fishers. The training course was participated in by 2 central fishery officers, 1 local fishery officer and 30



*Demonstration and on-site training course on the use of wind energy for sailing fishing vessels*

small-scale fishers. After the lecture on the “Utilization of Wind Energy

for Small-scale Fishing Boats”, the participants were assigned to design the sail, e.g. triangular- and rectangular-shaped sail cloths. The sail cloths were prepared by the participants with technical assistance from the resource persons and a DOF Myanmar officer who was trained during the first sailboat sea-trial in Myanmar in 2008. After completing the sail cloths and the materials for installation onboard, actual trial was carried out using both triangular- and rectangular-shaped sail cloths. 

# FUTURE ACTIVITIES

Date	Venue	Title	Organizer
<b>2010</b>			
8-28 July	Tigbauan, Iloilo, Philippines	Training Course on Abalone Hatchery and Grow-out	AOD
12-16 July	Binangonan, Rizal, Philippines	Training Course on Tilapia Hatchery & Grow-out Operations	AOD
29 July-7 August	Malaysia	Purse Seine Fishing Operation Course	TD
26 July-17 December	Online	Distance Learning Course: Principle of Health Management in Aquaculture	AOD
1-7 August	Trang and Songkhla, Thailand	Onsite Training on Sailing Boat for Fisheries and Tourism	TD
2-4 August	Brunei Darussalam	31 <sup>st</sup> of Special Senior Official Meeting of the ASEAN Ministers on Agriculture and Forestry (SOM-AMAF)	ASEAN
5 August	Brunei Darussalam	9 <sup>th</sup> of Special Senior Official Meeting of the ASEAN Ministers on Agriculture and Forestry +3 (SOM-AMAF+3)	ASEAN
16 August	Bangkok, Thailand	Second Press Conference of the "Fish for the People 2020" Conference and signing of contract between SEAFDEC and ASEAN Foundation	Secretariat
17-19 August	Singapore	Regional Technical Consultation on Issues related to Post-harvest and Safety of Fish and Fishery Products	MFRD
10 August-10 September	Tigbauan, Iloilo, Philippines	Special Training Course on Hatchery of Selected Marine Fish	AOD
16-20 August	Binangonan, Philippines	Training Course on Carp Hatchery and Grow-out Operation	AOD
17-19 August	Bangkok, Thailand	2 <sup>nd</sup> ASEAN-SEAFDEC Regional Technical Consultation on Fisheries Human Resources Development (HRD) for Poverty Alleviation	Secretariat
31 August-2 September	Bangkok, Thailand	Expert Meeting on Deep-sea Fishing and Its Impact to Ecosystem	TD
1-4 September	Korea Rep.	3 <sup>rd</sup> Session of the APFIC Regional Consultative Forum	APFIC
6-8 September	Korea Rep.	31 <sup>st</sup> Session of the Asia Pacific Fishery Commission (APFIC)	APFIC
6-23 September	Samut Prakan, Thailand	A Short Term Training Program in Coastal Fisheries Management and Extension Methodology	TD
13-14 September	Bangkok, Thailand	Tuna Conference 2010	INFOFISH
13-17 September	Binangonan, Rizal, Philippines	Training Course on Freshwater Prawn Hatchery & Grow-out Operations	AOD
15-17 September	Bangkok, Thailand	ASEAN-SEAFDEC Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing	Sida
20-28 September	Samut Prakan, Thailand	The Regional Training Course on Co-management Using Group User Rights for Enhancing Small-scale Fisheries Development and Management	TD
22-25 September	Phuket, Thailand	Global Conference on Aquaculture	FAO-NACA
27 September-1 October	Phuket, Thailand	5 <sup>th</sup> Session of the COFI Sub-Committee on Aquaculture	FAO
2 October	Phuket, Thailand	Coordinating Working Party on Fisheries Statistics (CWP)-Intersessions Aquaculture Group Meeting	FAO
6-8 October	Manila, Philippines	11 <sup>th</sup> Information Staff Exchange Program Meeting (ISEP)	AOD
11 October	Bangkok, Thailand	Department's Chief Meeting	Secretariat
12-15 October	Samut Prakan, Thailand	1 <sup>st</sup> Regional Technical Consultation on Sustainable Fisheries Management	TD
16-20 October	Samut Prakan, Thailand	Training Workshop on Research Methodologies for study on Impact of Fishing on Deep-sea Ecosystem	TD
18-22 October	Bangkok, Thailand	World Small-Scale Fisheries Congress	CDC

## New manuals, reports, flyer



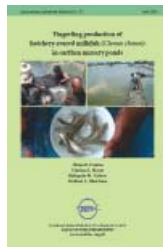
**Farming of the tropical abalone** *Haliotis asinina*, a 30-page extension manual detailing site selection, nursery and grow-out operations, harvest and live transport, and economic feasibility. It also includes a flowchart of abalone culture and cooking recipes. Written by AQD's VC Encena II and NC Bayona



**Intensive culture of seabass**, *Lates calcarifer* Bloch, in brackishwater earthen ponds, a 34-page extension manual describing criteria for site selection, monoculture and polyculture operations including feeds and feeding, harvest, common diseases, and economic analysis. Written by AQD's GS Jamerlan and RM Coloso



**Mud crab nursery in ponds**, 27-page extension manual that is highly illustrated, detailing the biology, nursery, harvest, marketing, costs-and-returns of mudcrab nursery in ponds. Published by AQD, it is a collaboration with ACE, MODE/SPPI, BVFMC, ACELT, BFAR and ACIAR-CATP



**Fingerling production of hatchery-reared milkfish** (*Chanos chanos*) in earthen nursery ponds, a 32-page extension manual detailing the three types of nurseries, site selection, and pond preparation; fry selection, handling, transport, acclimation and stocking; fish monitoring, feeding, and harvest; and economics. It is written by AQD's E Coniza, CL Marte, RM Coloso, FH Huervana



**Prevention and control measures against viral nervous necrosis (VNN) in marine fish hatcheries**, a 38-page extension manual that describes the clinical signs, behavioral changes, and species affected by the virus; detection, prevention and control methods are also included. Written by AQD's LD de la Pena, the publication is funded by the GOJ-TF

### Note for contributors

The SEAFDEC Newsletter publishes quarterly news on all aspects of fisheries in Southeast Asia. The Editors reserve the right to accept and/or abridge articles based on available space. Anyone wishing to submit an article to the SEAFDEC Newsletter is requested to send it to the Editor in Chief or Editors at the given addresses.

Information in this Newsletter may be quoted only if reference is made to SEAFDEC.

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## Meeting on information collection for highly migratory species

The 3<sup>rd</sup> Meeting of Working Group for Highly Migratory Species Information Collection was held in Phuket, Thailand on 10-11 June 2010. Organized by the Training Department (TD) in collaboration with the Andaman Sea Fisheries Research and Development Center of the Department of Fisheries of Thailand, the Meeting was part of the Program on “Information Collection of Highly Migratory Species in Southeast Asian Waters”. With the main objective of assessing development of tuna data logbook or documentation system to support proper data/information collection, the Meeting was attended by representatives from the participating countries, namely: Indonesia, Philippines, Thailand, and Vietnam. Also present during the Meeting were representatives from SEAFDEC Secretariat as well as from TD. The regional activity to collect information



*The participants were discussing Tuna information collecting*

on highly migratory species in Southeast Asian waters was initiated by TD in 2008 with the specific objectives of reviewing and evaluating the status of tuna fisheries and production in the Southeast Asian waters, and developing the regional tuna database taking into account the information collected from selected tuna landing sites in the

respective participating countries and from the corresponding national tuna statistics. During the first year of the project implementation in 2008, working group for information collection on tuna fisheries was established comprising representatives from four participating countries (IPTV-Countries), namely: Indonesia, Philippines, Thailand and Vietnam.

At the 1<sup>st</sup> Working Group Meeting, existing information on tuna production at national level and ways to improve tuna data collection were discussed. However, considering that the level of national development of the participating countries for information collection had been significantly different, the Meeting

*(To be continued on Page 7)*

## SEAFDEC formalized its collaboration with the Colombo Plan

During its 42<sup>nd</sup> annual meeting held in Luang Prabang, Lao PDR, the SEAFDEC Council witnessed the Signing of the Memorandum of Understanding (MOU) between SEAFDEC and the Colombo Plan on 7 April 2010. The MOU is aimed at promoting human resource development and capacity building of the developing member countries of the Colombo Plan.

The signing of this MOU was not the first time that SEAFDEC entered into an agreement with the Colombo Plan. In the past, short-term collaborative arrangements with the Colombo Plan were made on project basis particularly focusing on human resource development through South-South Technical Cooperation. Under such arrangements, the Colombo

strengthened collaboration between SEAFDEC and the Colombo Plan in a long-term basis.

Plan supported the participation of representatives from the developing countries of the Colombo Plan in the various training activities conducted by the SEAFDEC Departments. The new MOU signed at this Meeting is therefore envisaged towards

During the ceremony, the Secretary-General of the Colombo Plan, Dató Patricia Yoon-Moi Chia emphasized that the new MOU would provide a window for the promotion of technical cooperation through the opportunities offered to the developing countries of the Colombo Plan which include the ASEAN countries, to attain further economic and social development through HRD in sustainable fisheries. With the new MOU, it is envisaged that SEAFDEC and the Colombo Plan would have strong cooperation that would ensure the contribution of fisheries towards the economic development of the region in the years to come. ☒

